TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Cedar Falls
704 Enterprise Drive
Cedar Falls, IA 50613
Tel: 800-750-2401

TestAmerica Job ID: CVD0191
Client Project/Site: [none]
Client Project Description: Liberty Tire Recyclers

For:
HYDRO-KLEAN, INC.
333 NW 49th Place
Des Moines, IA 50313

Attn: Ryan Blackburn

Linda Cmelik

Authorized for release by:
4/13/2012 11:38:08 AM
Linda Cmelik
Project Manager
linda.cmelik@testamericainc.com

Designee for

Shirley Thompson
Project Manager
shirley.thompson@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Sample Summary

Client: HYDRO-KLEAN, INC.
Project/Site: [none]

TestAmerica Job ID: CVD0191

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
CVD0191-01	256489-1/2	Water	03/29/12 08:40	04/03/12 18:00
CVD0191-02	265360-1/2	Water	03/29/12 08:45	04/03/12 18:00
CVD0191-03	259864-1/2	Water	03/29/12 08:50	04/03/12 18:00
CVD0191-04	255678-1/2	Water	03/29/12 08:55	04/03/12 18:00

Client Sample ID: 256489-1/2

Date Collected: 03/29/12 08:40
Date Received: 04/03/12 18:00

Lab Sample ID: CVD0191-01

Matrix: Water

Method: EPA 624 - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Benzene	**24.7**	**RL1**	5.00		ug/L		SJN	04/06/12 10:58	10.0
Ethylbenzene	<10.0	RL1	10.0		ug/L		SJN	04/06/12 10:58	10.0
Toluene	<10.0	RL1	10.0		ug/L		SJN	04/06/12 10:58	10.0
Xylenes, total	<30.0	RL1	30.0		ug/L		SJN	04/06/12 10:58	10.0

Method: SW 9041A - VOC Preservation Check

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
pH	<2.00		2.00		units		FMK	04/05/12 15:37	1.00

Method: EPA 245.2 - Total Metals by EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		CJT	04/06/12 11:38	1.00

Method: EPA 200.7 - Total Metals by EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Arsenic	<0.0800		0.0800		mg/L		SNS	04/05/12 20:55	1.00
Barium	**0.0856**		0.0100		mg/L		SNS	04/05/12 20:55	1.00
Cadmium	<0.0200		0.0200		mg/L		SNS	04/05/12 20:55	1.00
Chromium	<0.0200		0.0200		mg/L		SNS	04/05/12 20:55	1.00
Lead	<0.100		0.100		mg/L		SNS	04/05/12 20:55	1.00
Selenium	<0.150		0.150		mg/L		SNS	04/05/12 20:55	1.00
Silver	<0.0200		0.0200		mg/L		SNS	04/05/12 20:55	1.00

Method: EPA 420.4 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Phenol	**0.265**		0.0368		mg/L		MDK	04/11/12 09:43	1.00

Client Sample ID: 265360-1/2

Date Collected: 03/29/12 08:45
Date Received: 04/03/12 18:00

Lab Sample ID: CVD0191-02

Matrix: Water

Method: EPA 624 - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Benzene	**37.7**	**RL1**	5.00		ug/L		SJN	04/06/12 10:33	10.0
Ethylbenzene	<10.0	RL1	10.0		ug/L		SJN	04/06/12 10:33	10.0
Toluene	<10.0	RL1	10.0		ug/L		SJN	04/06/12 10:33	10.0
Xylenes, total	<30.0	RL1	30.0		ug/L		SJN	04/06/12 10:33	10.0

Method: SW 9041A - VOC Preservation Check

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
pH	<2.00		2.00		units		FMK	04/05/12 15:37	1.00

Method: EPA 245.2 - Total Metals by EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		CJT	04/06/12 11:40	1.00

Method: EPA 200.7 - Total Metals by EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Arsenic	<0.0800		0.0800		mg/L		SNS	04/05/12 20:57	1.00
Barium	**0.0897**		0.0100		mg/L		SNS	04/05/12 20:57	1.00

Client Sample ID: 265360-1/2

Date Collected: 03/29/12 08:45
Date Received: 04/03/12 18:00

Lab Sample ID: CVD0191-02
Matrix: Water

Method: EPA 200.7 - Total Metals by EPA 200 Series Methods (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Cadmium	<0.0200		0.0200		mg/L		SNS	04/05/12 20:57	1.00
Chromium	<0.0200		0.0200		mg/L		SNS	04/05/12 20:57	1.00
Lead	<0.100		0.100		mg/L		SNS	04/05/12 20:57	1.00
Selenium	<0.150		0.150		mg/L		SNS	04/05/12 20:57	1.00
Silver	<0.0200		0.0200		mg/L		SNS	04/05/12 20:57	1.00

Method: EPA 420.4 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Phenol	<0.0900		0.0900		mg/L		MDK	04/11/12 09:50	1.00

Client Sample ID: 259864-1/2

Date Collected: 03/29/12 08:50
Date Received: 04/03/12 18:00

Lab Sample ID: CVD0191-03
Matrix: Water

Method: EPA 624 - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Benzene	**23.9**	**RL1**	5.00		ug/L		SJN	04/06/12 10:08	10.0
Ethylbenzene	<10.0	RL1	10.0		ug/L		SJN	04/06/12 10:08	10.0
Toluene	<10.0	RL1	10.0		ug/L		SJN	04/06/12 10:08	10.0
Xylenes, total	**31.9**	**RL1**	30.0		ug/L		SJN	04/06/12 10:08	10.0

Method: SW 9041A - VOC Preservation Check

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
pH	<2.00		2.00		units		FMK	04/05/12 15:37	1.00

Method: EPA 245.2 - Total Metals by EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		CJT	04/06/12 11:42	1.00

Method: EPA 200.7 - Total Metals by EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Arsenic	<0.0800		0.0800		mg/L		SNS	04/05/12 20:58	1.00
Barium	**0.104**		0.0100		mg/L		SNS	04/05/12 20:58	1.00
Cadmium	<0.0200		0.0200		mg/L		SNS	04/05/12 20:58	1.00
Chromium	<0.0200		0.0200		mg/L		SNS	04/05/12 20:58	1.00
Lead	<0.100		0.100		mg/L		SNS	04/05/12 20:58	1.00
Selenium	<0.150		0.150		mg/L		SNS	04/05/12 20:58	1.00
Silver	<0.0200		0.0200		mg/L		SNS	04/05/12 20:58	1.00

Method: EPA 420.4 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Phenol	<0.0920		0.0920		mg/L		MDK	04/11/12 09:51	1.00

Client Sample Results

Client: HYDRO-KLEAN, INC.
Project/Site: [none]

TestAmerica Job ID: CVD0191

Client Sample ID: 255678-1/2
Date Collected: 03/29/12 08:55
Date Received: 04/03/12 18:00

Lab Sample ID: CVD0191-04
Matrix: Water

Method: EPA 624 - Volatile Organic Compounds

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Benzene	<5.00	RL1	5.00		ug/L		SJN	04/06/12 03:46	10.0
Ethylbenzene	<10.0	RL1	10.0		ug/L		SJN	04/06/12 03:46	10.0
Toluene	<10.0	RL1	10.0		ug/L		SJN	04/06/12 03:46	10.0
Xylenes, total	<30.0	RL1	30.0		ug/L		SJN	04/06/12 03:46	10.0

Method: SW 9041A - VOC Preservation Check

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
pH	<2.00		2.00		units		FMK	04/05/12 15:37	1.00

Method: EPA 245.2 - Total Metals by EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		CJT	04/06/12 11:44	1.00

Method: EPA 200.7 - Total Metals by EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Arsenic	<0.0800		0.0800		mg/L		SNS	04/05/12 21:00	1.00
Barium	**0.0747**		0.0100		mg/L		SNS	04/05/12 21:00	1.00
Cadmium	<0.0200		0.0200		mg/L		SNS	04/05/12 21:00	1.00
Chromium	<0.0200		0.0200		mg/L		SNS	04/05/12 21:00	1.00
Lead	<0.100		0.100		mg/L		SNS	04/05/12 21:00	1.00
Selenium	<0.150		0.150		mg/L		SNS	04/05/12 21:00	1.00
Silver	<0.0200		0.0200		mg/L		SNS	04/05/12 21:00	1.00

Method: EPA 420.4 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyst	Analyzed	Dil Fac
Phenol	<0.0200		0.0200		mg/L		MDK	04/11/12 09:52	1.00

Certification and Definitions Summary

Client: HYDRO-KLEAN, INC.
Project/Site: [none]

TestAmerica Job ID: CVD0191

Certifications

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Cedar Falls	AIHA - LAP	IHLAP		101044
TestAmerica Cedar Falls	Illinois	NELAC	5	200024
TestAmerica Cedar Falls	Iowa	State Program	7	7
TestAmerica Cedar Falls	Kansas	NELAC	7	E-10341
TestAmerica Cedar Falls	Minnesota	NELAC	5	019-999-319
TestAmerica Cedar Falls	North Dakota	State Program	8	R-186
TestAmerica Cedar Falls	Oregon	NELAC	10	IA100001
TestAmerica Cedar Falls	Wisconsin	State Program	5	999917270

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
RL1	Reporting limit raised due to sample matrix effects.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)

Method Summary

Client: HYDRO-KLEAN, INC.
Project/Site: [none]

TestAmerica Job ID: CVD0191

Method	Method Description	Protocol	Laboratory
EPA 624	Volatile Organic Compounds		TAL CF
SW 9041A	VOC Preservation Check		TAL CF
EPA 245.2	Total Metals by EPA 200 Series Methods		TAL CF
EPA 200.7	Total Metals by EPA 200 Series Methods		TAL CF
EPA 420.4	General Chemistry Parameters		TAL CF

Protocol References:

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL 800-750-2401

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Phone 319-277-2401 or 800-750-2401
Fax 319-277-2425

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring _____

Client Name: HYDRO KLEAN LLC Client #: _____
Address: 333 NW 49TH PLACE
City/State/Zip Code: DES MOINES, IA 50313
Project Manager: RYAN BLACKBURN
Email Address: AREPP@HYDRO-KLEAN.COM
Telephone Number: 515-402-7036 Fax: 515-283-0505
Sampler Name: (Print Name) ANDY REPP
Sampler Signature: [signature]

Project Name: LIBERTY TIRE RECYCLERS
Project #: _____
Site/Location ID: DES MOINES State: IA
Report To: HYDRO-KLEAN
Invoice To: HYDRO-KLEAN
Quote #: _____ PO#: _____

TAT
X Standard
___ Rush (surcharges may apply)
Date Needed: ASAP
Fax Results: X N
Email Results: X N

QC Deliverables
___ None
___ Level 2 (Batch QC)
___ Level 3
___ Level 4
Other: _____

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify, Other	Preservation & # of Containers: HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	Analyze For: BTEX	TOTAL METALS	PHENOL	REMARKS
256489-1	3-29	8:40				1	3						✓	✓		
256489-2	3-29	840							1						✓	
265360-1	3-29	845				1	3						✓	✓		
265360-2	3-29	845							1						✓	
259864-1	3-29	850				1	3						✓	✓		
259864-2	3-29	850							1						✓	
255678-1	3-29	855				1	3						✓	✓		
255678-2	3-29	855							1						✓	

Special Instructions:
E-MAIL RESULTS TO RBLACKBURN@HYDRO-KLEAN.COM

LABORATORY COMMENTS:

	Date	Time		Date	Time
Relinquished By: [signature]	4-3-12	1345	Received By: [signature]	4-3-12	14:40
Relinquished By:	Date:	Time:	Received By: [signature]	4/3/12	1800
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAL-0033 (0708)

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

704 ENTERPRISE DRIVE • CEDAR FALLS, IA 50613
800-750-2401 • 319-277-2425 FAX

Sample Receipt and Temperature Log Form

Client: Hydro Klean Project: _____

City: Des Moines, Ia

Date: 4/3/12 Receiver's Initials: JMH Time (Delivered): 1800

Temperature Record:

Cooler ID# (If Applicable)
HYDROKleen

0.8 °C / On Ice

Thermometer:

- [x] IR - 111531565 'D'
- [ ] IR - 111531506 'E'
- [ ] IR - 61854108 'Front'
- [ ] 101681126

Courier:

- [ ] UPS
- [x] TA Courier
- [ ] FedEx
- [ ] TA Field Services
- [ ] FedEx Ground
- [ ] Client
- [ ] US Postal Service
- [ ] Other
- [ ] Spee-Dee

[ ] Temp Blank Used "259864-1" 500mL plastic HNO3 pres

[ ] Temperature out of compliance

Custody seals present?
[ ] Yes
Custody seals intact?
[ ] Yes [ ] No

[ ] Non-Conformance report started

Exceptions Noted

- [ ] Sample(s) not received in a cooler.
- [ ] Samples(s) received same day of sampling.
- [ ] Evidence of a chilling process
- [ ] No Temp. Blank. Inside temperature of cooler recorded.
- [ ] Temperature not taken: _____

purge vials

*Refer to SOP CF-SS-01 for Temperature Criteria